UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-SEDIMENTATION CHARACTERISTICS OF VENEZUELAN EQUINE
ENCEPHALDMYELITIS VIRUS -UAUTHOR-(05)-URYVAYEV, L.V., ZHDANOV, V.M., YERSHOV, F.I., CHERNETSOV,

YU.V., BYKOVSKIY, A.F.

SOURCE--VOPROSY VIRUSULUGII, 1970, NR 3, PP 330-336

DATE PUBLISHED ----- 70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-VENEZUELAN EQUINE ENCEPHALITIS VIRUS. TISSUE CULTURE, SEDIMENTATION

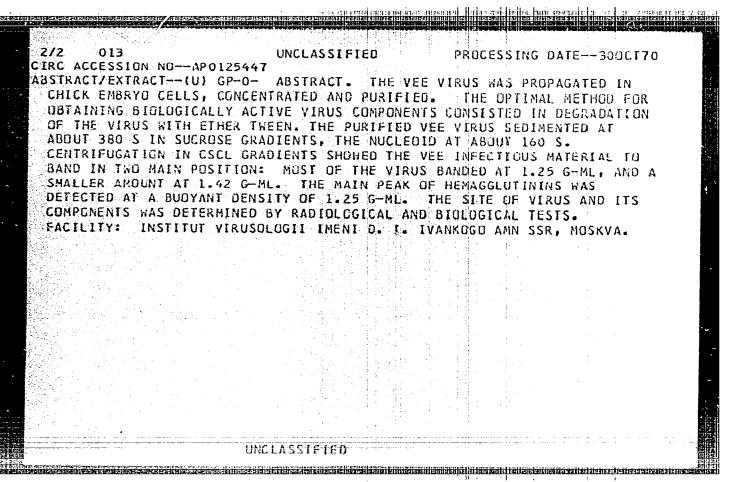
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1836

STEP NG--UR/0402/T0/000/003/0330/0336

CIRC ACCESSION NO--APO125447

UNCLASSIFIED



USSR

UDC: 576.858

YERSHOV, F.I., URYVAYEV, L.V., and ZHDANOV, V.M., Academician, Academy of Medical Sciences USSR Institute of Virology imeni D.I. Ivanovskiy, Academy of Medical Sciences USSR

"Synthesis of Arbovirus RNA and Proteins in Subcellular Structures"

Moscow, Doklady Akademii Nauk, Vol 190, No 2, 1970, pp 458-460

Abstract: A fraction containing the subcellular structures (SS-15) was extracted from chick fibroblasts infected with Venezuelan equine encephalomyelitis virus and from intact cells. The fraction was diluted (1:10) with medium 199, and incubated for 1-2 hours at 37°C, after which H3-uridine and a C14amino acid mixture were added. After rapid chilling, the SS-15 fraction and accompanying products were centrifuged (1500 g) and analyzed in a sucrose density gradient. Supernatants of the infected cells contained a product with a sedimentation constant of 405, and lighter, slower settling products in the form of RNA and polypeptides, whereas supernatants of the noninfected cells contained only the lighter products. After gradient centrifugation of the SS-15 fractions isolated from infected and noninfected cells, nucleic and protein tags were found in the form of two peaks one of which was linked to the structures, while the other apeared in the lighter part of the gradient. It was concluded that subcellular structures consisting of cytoplasmatic membranes with ribonsomes and mitochondria are a convenient model for studying virus-induced synthesis.

- 69 -

1/2 011 UNCLASSIFIED PROCESSING DATE-230CT70
TITLE--FORMATION OF THE VIRUS SPECIFIC POLYSOMES AT AN EARLY STAGE OF

PARAMYXOVIRUS INFECTION -U-AUTHOR-(02)-BUKRINSKAYA, A.G., ZHDANOV, V.M.

COUNTRY OF INFO--USSR

SOURCE--MOLEKULYARNAYA BIOLOGIYA, 1970, VOL 4, NR 3 PP 313-323

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--MYXOVIRUS, RIBOSOME, PROTEIN, RNA

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/0397

STEP NO--UR/0463/70/004/003/0313/0323

CIRC ACCESSION NO--APO122577

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--APO122577 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. INVOLVEMENT OF A VIRAL RIBONUCLEOPROTEIN IN VIRUS SPECIFIC FORMATION WAS STUDIED IN EHRLICH ASCITES CELLS INFECTED BY SENDAL VIRUS. VIRUS BEING BEFOREHAND LABELLED WITH NA SUB2 H PRIME32 PO SUB4 AND PRIME3 H LEUCINE, CENTRIFUGATION OF THE CELL EXTRACTS IN SUCROSE DENSITY GRADIENT REVEALED THE PRESENCE OF THE VIRUS RIBONUCLEOPROTEIN IN CYTOPLASH DURING AT LEAST 6 HOURS AFTER INFECTION. IN THE COURSE OF INFECTION DEPROTENIZATION OF THE RNP TAKES PLACE. A PART OF THE VIRUS RNP IS FOUND TO BE BOUND TO PROTEIN SYNTHESIZING RIBOSOMES IN AN HOUR AFTER INFECTION OR LATER. COMPLEXES RNP, RIBOSOMES WERE SENSITIVE TO RIBONUCLEASE AND EDTA TRAEATMENT AND SEDIMENTED FASTER AFTER IMMUNE ANTIVIRAL SERUM TREATMENT. *BEING CENTRIFUGATED IN A PREFORMED CXCL DENSITY GRADIENT, THE COMPLEXES WERE SHOWN TO HAVE BUOYANT DENSITY ILAS AND ILAING-CM PRIMES. NEWLY SYNTHESIZED VIRUS SPECIFIC RNA IS FOUND ALSO IN THE POLYSOME ZONE IN 3 HOURS AFTER INFECTION: ITS DISTRIBUTION IN SUCROSE DENSITY GRADIENT ! CONINCIDING WITH THE DISTRIBUTION OF THE PARENT VIRUS RADIDACTIVITY. ON THE LATER STAGES OF INFECTION THE COINCIDENCE MENTIONED ABOVE DOES DISAPPEAR. FACILITY: INSTITUTE OF VIROLOGY, ACADEMY OF MEDICAL SCIENCES, USSR, MOSCON. -UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

UDC 576.858

BUKRINSKAYA, A. G. and ZHDANOV, V. M., Institute of Virology imeni D. I. Ivanov-

skiy, Adacemy of Medical Sciences USSA

"Formation of Virus-Specific Polysomes in the Early State of Infection with Paramyxovirus"

Moscow. Molekulyarnaya Biologiya, No 3, 1970, pp 313-323

Abstract: The participation of viral ribonucleoprotein in the formation of virusspecific polysomes in Ehrlich's ascites tumor cells infegted with Sendai virus was studied. Following infection of the cells with NagH Pou- and H3-leucinelabeled virus, centrifugation of the cell extracts in a sucross density gradient showed that viral ribonucleoprotein remained in the cytoplasm for at least 6 hours after infection, during which time it became partly deproteinized. Some viral ribonucleoprotein was found an hour after infection, and thereafter in complexes with protein-synthesizing ribosomes. These complexes were sensitive to ribonuclease and EDTA, and sedimented when treated with humane antiviral serum. Centrifugation in a preformed CsCl gradient showed that the complexes have a buoyancy density of 1.45 and 1.41 g/cm3. Newly synthesized varus-specific RNA was also found near the polysomes 3 hours after infection. Its distribution in

CIA-RDP86-00513R002203810006-9" APPROVED FOR RELEASE: 09/01/2001

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	USSR 1070 pp 313-323	
	BUKRINSKAYA, A. G., et al, Molekulyarnaya Biologiya, No 3, 1970, pp 313-323	
	the distribution of rational and the distribution of rational and the same and the	
	the sucrose density gradient coincided with the target of infection. the parent virus, but diverged in later stages of infection.	
	는 사용하는 이 아이는 이 사람들이 되는 것을 가장하는 것이 되었다. 소식을 하는 사람들은 사용하는 이 사람들이 되는 사용을 하는 것을 보고 있다. 그를 보고 있다. 그를 보고 있다.	
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1/2 013 UNCLASSIFIED PROCESSING DATE--11SEP70 TITLE--VIRUS INDUCED SYNTHESES ON PREFORMED SUBCELLULAR CULTURES -U-

AUTHOR--ZHDANOV, V.M., YERSHOV, F.I., URYAYEV, L.V., NOVOKHATSKIY, A.S.

COUNTRY OF INFO--USSR

SOURCE--VOPROSY VIRUSOLOGII, 1970, NR 1, PP 38-46

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--PROTEIN SYNTHESIS, TISSUE CULTURE, EASTERN EQUINE ENCEPHALITIS VIRUS, VENEZUELAN EQUINE ENCEPHALITIS VIRUS

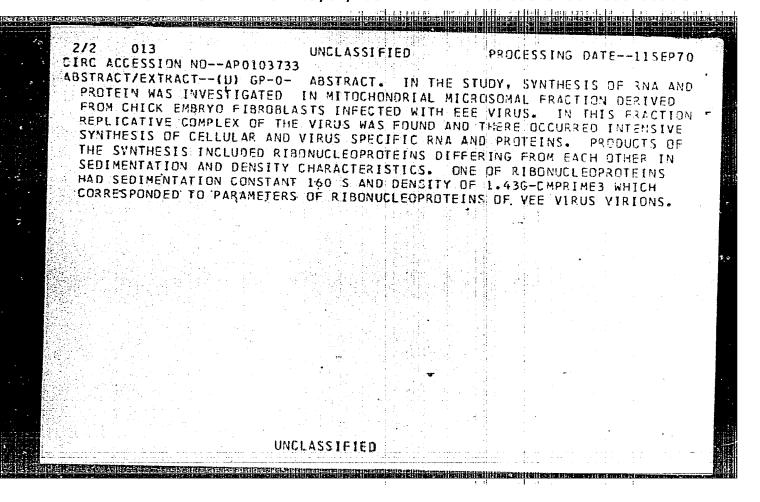
CONTROL MARKING--NO RESTRICTIONS

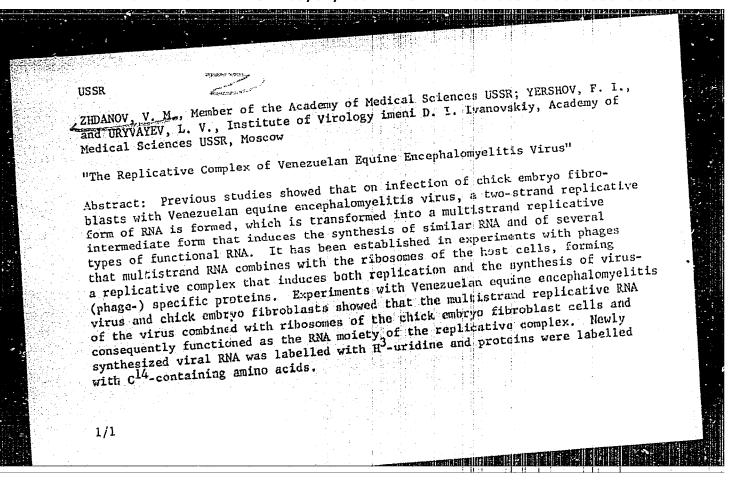
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1987/0053

STER NO--UR/0402/70/000/001/0038/0046

CIRC ACCESSION NO--AP0103733

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UDC 576.558

YERSHOV, F. I., URYVAYEV, L. V., and ZHDANOV, V. M., Active Member, Academy of Medical Sciences USSR and EXYNOV, I. D., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences, Moscow

"Cytochemical Analysis of Structures Isolated from Cells Infected with Arbovirus"

Moscow, Doklady Akademii Nauk SSSR, Vol 190, No 1, Jan/Feb 70, pp 212-213

Abstract: The morphological characteristics of fraction CC-15, isolated from chick embryo fibroblasts infected with Venezuelan equine encephalomyelitis virus, were studied with the help of phase contrast and fluorescence microscopy. Chick embryo fibroblasts and cells obtained three hours after infection with massive doses of the virus obtained three hours after infection with massive doses of the virus were disintegrated in a homogenator, and the nuclei, debris, and whole were disintegrated in a homogenator, and the nuclei, debris, and whole were disintegrated in a homogenator, and the nuclei, debris, and whole were disintegrated in a homogenator, and the nuclei, debris, and whole were disintegrated in a homogenator, and the nuclei, debris, and whole were stained by the subsequent centrifugation of the homogenate, suswas obtained by the subsequent centrifugation of the homogenate, phosphine pension in 199 medium, and straining with acridine orange, phosphine 3P, and homologous antibodies labelled with fluorescein isothiocyanate. Fart of the preparation were stained with Janus green, or prered by 1/2

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YERSHOV, F. I., et al., Moscow, Doklady Akademii Nauk SSSR, Vol 190, No 1, Jan/Feb 70, pp 212-213

by the crushed drop method and studied by means of phase contrast microscopy. Examinations showed that cytoplasmic RNA of whole cells stained with acridine orange fluoresced ruby-red, while the RMA of the nucleoli -- brick-red, and DNA of the nuclei -- emerald-green. Phosphine 3P produced a greenish-brown color in the cytoplasm and a dark-brown color in the cell nuclei. Fluorescence microscopy of the debris and and nuclei obtained after homogenation showed large conglomerates of cytoplasm which were ruby-red. Fraction CC-15 stained with acridine orange revealed under phase contrast microscopy a mass of ruby-red granules scattered through the entire field of vision. When stained with phosphine 3P -- single brightly fluorescing lipid granu-les were observed. A considerable increase in the number of lipid granules was noted when the CC-15 fraction from infected cells was studied by fluorescence microscopy. The presence of a specific virus antigen was observed in the CC-15 fraction treated with fluorescein isothiocyanate. Scattered mitochondria were observed throughout the cytoplasmic network of fraction CC-15 preparations stained with Janus green. 2/2

USSR

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AZADOVA, N. B., KUPRADZE, S. A., and ZHDANOV, V. M., Institute of Virology, imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, Moscow

"The Effect of Antineuraminidase Serum on Replication of Sondai Virus"

Moscow, Voprosy Virusologii, No 6, Nov. Dec 71, pp 665-670

Abstract: Addition of antineuraminidase serum (1:50) to fetal pig kidney cell cultures infected with Sendai virus inhibited the release of hemagglutinin, neuraminidase, and the virus into the liquid phase of the cultures, and reduced by a factor of three the intracellular hemagglutinin titer and the intracellular virus concentration. Since these differences were observed even in the initial hours of the infectious process, it was concluded that antineuraminidase serum exerts an effect not only on the final reproduction phase of the virus (as generally believed) but on all phases, probably by penetrating the cell membrane and blocking the synthesis of hemagglutinin and neuraminidase, (which takes place in the cytoplasm), but without in the nucleus).

1/1

16 -

USSR

UDC 629.7.036.2

POLEVICHEK, Ye. P., ZHDANOV, V. V.

"Calculation of the Pressure in the Combustion Chamber of a Pulsating Jet Engine During the Process of Filling"

Sameletostr. i Tekhn. Vozd. Flota. Resp. Mezhved. Temat. Nauch.-Tekhn. sb. [Aircraft Construction and Air Industry Technology. Republic Interdepartmental Thematic Scientific and Technical Collection], No 28, 1972, pp 10-15, (Translated from Referativnyy Zhurnal, Aviatsioynnye i Raketnye Dvigateli, No 8, 1972, Abstract No 8.34.79, from the Resume).

Translation: The process of filling of the combustion chamber of a pulsating jet engine is studied, and the laws of thermodynamics are used as a basis to produce an equation for calculation of the pressure in the chamber as it is filled with fresh working fluid. An approximate formula convenient for calculation is produced, allowing the desired pressure to be determined with good accuracy. Results of calculations using the precise and approximate formulas are compared. Results of experimental cold blowing of air through a model chamber are presented and compared with the calculated results.

3 Figures; 3 Biblio. Refs.

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USSR

UDC 547.455+547.446+547.241

ZHDANOV, YU. A., and UZLOVA, L. A.

"Phosphorane From 1,3-Dibromopropanone and Syntheses Based on This Process"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), Vyp 4, 1972, pp 759-762

Abstract: Phosphoranes with a halogen at the first carbon atom -- compounds not obtainable by using the Wittig reaction -- were prepared by reacting symmetrical dibromoacetone with triphenylphosphine in a basic solution, yielding $\operatorname{BrCH_2COCH} = \operatorname{P(C_{6H_5})_2}$. The reaction of this compound with the aldehyde form of sugars resulted in the formation of C , B -unsaturated compounds of the form $\operatorname{BrCH_2COCHCH-R}$. The bromoketones reacted with thiourea to form C-glucosylated thiozols. Under rigorous conditions the obtained phosphanes usually react with active aldehyde groups forming cyclic "sugar" phosphanes. Identity of the products was confirmed by IR spectra. Preparative procedures are given.

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UDC 547.454:548.813

UZLOVA, L. A., GLEBOVA, Z. I., and ZHDANOV, Yu. A.

"Reactions of a-Haloketoses With Triethyl Phosphite"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(103), No 2, Feb 72, pp 483-484

Abstract: The authors studied the reaction between triethyl phosphite and ketose halides. It was found that acetylated 1-halode-1-desoxyuloses 1-chloro-1-desoxy-3,4,5,6,7-penta-0-acetyl-D-galactoheptulose (I) and 1-bromo-1-desoxy-3,4,5,6-tetra-0-acetyl-L-fructose (II) react with triphenyl phosphite to form vinyl phosphates (III, IV).

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- 55 -

USSR

UZLOVA, L. A., Zhurnal Obshchey Khimii, Vol 42(103), No 2, Feb 72, pp 483-484

(I) X==C1, n=4, D-galacto; (II) X=Br, n=3, L-arabino.

Reaction of 1-iodo-1-desoxy-3,4,5,6,7-penta-0-acety1-D-galactoheptulose with triethyl phosphite gives 1-desoxy-3,4,5,6,7-penta-0-acety1-D-galactoheptulose.

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USSR

UDC 547.454:548.813

ZHDANOV, YU. A., UZIOVA, L. A., Rostov-on-Donz State University, Rostov, Ministry of Higher and Secondary Specialized Education RSFSR

"The Carbon-Phosphorus Bond in Carbohydrates"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 9, Sep 70, p 2138

Abstract: The Arbuzev rearrangement was carried out with carbonyl forms of aldoses, acyl chlorides of aldonic acids and the dichloroanhydride of tetraccetylmucic acid. 1-Hydroxyphosphinic acids are stable compounds while the esters of C-ketophosphinic acids are unstable. The synthesized compounds show the following IR bands unstable. The synthesized compounds show the following IR bands 1748-1754 (G:0 of complex esters), 1649-1700 (free C:0), 1246-1281 (P:0), and 1002-1042 (P-0-C).

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

1/2 008 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE-SYNTHESIS OF BRANCHED SUGARS WITH OLEFIN BONDING -U-

AUTHOR-1041-ZHDANOV, YU.A., UZLOVA, L.A., LESKINA, L.P., GAVRILENKO, O.A.

COUNTRY OF INFO-USSR

SOURCE--ZH. OBSHCH. KHIM. 1970, 40(3), 666-9

DATE PUBLISHED ---- 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-SACCHARIDE, CHEMICAL SYNTHESIS

CENTROL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME—3001/2001

STEP NO--UR/0079/70/040/003/0666/0669

CIRC ACCESSION NO-APOL27396

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

800 UNCLASSIFIED PROCESSING DATE--300CT70 2/2 CIRC ACCESSION NO--APOL27396 ABSTRACT/EXTRACT-- (U) GP-O- ABSTRACT. KETO-L-SORBCSE PENTAACETATE (1) AND PH SUB3 P: CHAC HEATED 20 HR IN C SUB6 H SUB6 GAVE 4. ACETOXYMETHYL, 5.6, 7.8, TETRA-O-ACETYL, 3, 4, DIDEHYDRU, 1, 3, 4. TRIDEOXY-L-XYLO-GCTULOSE, A SYRUP. SIMILAR REACTION WITH PH SUB3 PICHBZ GAVE 3.ACETOXYMETHYL,4,5,6,7,TETRA-O-ACETYL,1,C,PHENYL, 2,3,DIDEHYDRO,2,3,DIDEOXY-L-XYLO-HEPTULOSE, A SYRUP, (ALPHA) PRIMEZO SUBD MINUS 10.8DEGREES. SIMILARLY WAS PREPD. ITS 1,C-P-ANISYL ANADLG (I). A SYRUP. (ALPHA) PRIMEZO SUBD MINUS 14.70EGREES; 2.4.DINITROPHENYLHYDRAZONE M. 171-3DEGREES. I AND PHNHNH SUB2 HEATED 1 HR IN ACOH GAVE 71PERCENT 3, P-ANISYL, 1, PHENYL, 5, (L-XYLO, 1, 2, 3, 4, TETRAACETOXYBUTYL), 2, PYRAZOLINE, A SYRUP, HEATING KETO-L-SORBOSE WITH PHISUB3 P:CHCO SUB2 ME: IN CHCL SUB3 L7 HR GAVE 21PERCENT ME 3 ACETOXYMETHYL, 4 5, 6 77 TETRA-O-ACETYL. 2,3.DIDEDXY,2,3.DIDEHYDRO-L-XYLD-HEPTONATE SYRUP, [ALPHA] PRIMERO SUB3 MINUS 12.20EGREES. 2.3.4.5.01-0-ISOPROPYLIDENE-ALDEHYDO-L-ARABINOSE AND PH.SUB2 P:C(CO SUB2 ME)CH SUB2 CO:SUB2 ME HEATED 5 HR IN CHCL SUB3 YIELDED 73PERCENT ME 2,3,4,TRIDEOXY,3,4,DIDEHYDRO,5,6,7,8,DI-U-ISOPRUPYLIDENE,3, METHOXYCARBONYL-L-ARABINO-OCTONDATE, SYRUP, (ALPHA) PRIME19 SUBD MINUS FACILITY: ROSTOV. - NA-DONU GOS UNIV. 8.6DEGREES. ROSTOV-CN-DCN. USSR.

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TITLE—BENZENDID QUINDID TAUTGMERISH OF AZOMETHINES AND THEIR STRUCTURAL AUTHER—(04)—ZHOANDY, YU.A., MINKIN, V.I., DLEKHNOVICH, L.P., MALYSHEVA, CGUNTRY OF INFO-1050

SUURCE--ZH. URG. KHIM. 1970, 0131 554-9

DATE PUEL ISHED ----- 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--BENZENE DERIVATIVE, TAUTOMERISM, DRGANIC SULFUR COMPOUND, IMINE, ARGMATIC AMINE, UV SPECTRUM, BOND ENERGY, MULECULAR DRBITAL

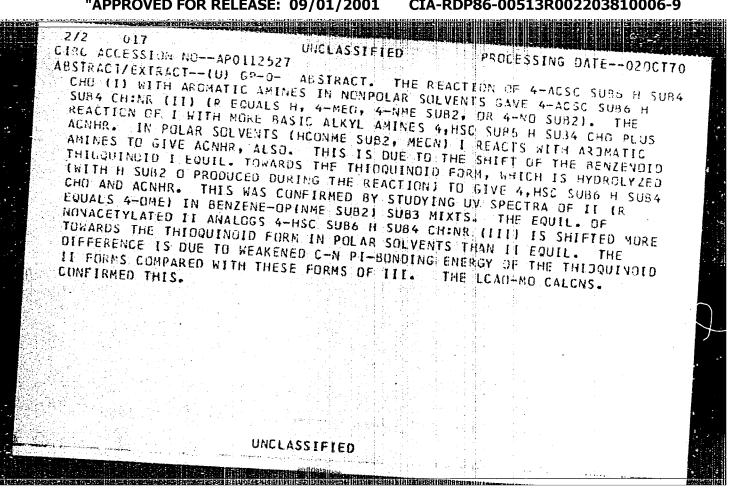
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DOCUMENT CLASS--UNCLASSIFIED PROXY PEEL/FRAME--1992/1533

STEP NO--UR/0366/70/006/003/0554/0559

CIRC ACCESSION NO-APO112527

UNCLASSIFIED



UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--BENZENDID QUINDID TAUTOMERISM OF AZOMETHINES AND THEIR STRUCTURAL
ANALOGS. IV. TAUTOMERIC EQUILIBRIUM IN SOLUTIONS OF N SUBSTITUTED O AND
AUTHOR-(04)-MINKIN, V.L., DLEKHNOVICH, L.P., ZHDANOV, YU.A., OSTROUMOV,
YU.A.
COUNTRY OF INFO--USSR

SCURCE--ZH. CRG. KHIM. 1970 6131 549-54

DATE PUBLISHED -----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--BENZENE DERIVATIVE, TAUTOMERISM, AZO COMPOUND, MERCAPIAN, ININE, MOLECULAR ORBITAL. ISOMER

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RECL/FRAME--1992/1534

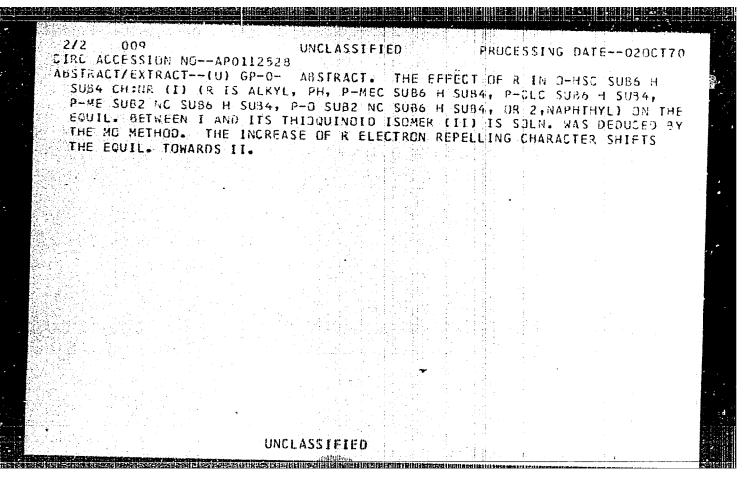
STEP NO--UR/0366/70/006/003/0549/0554

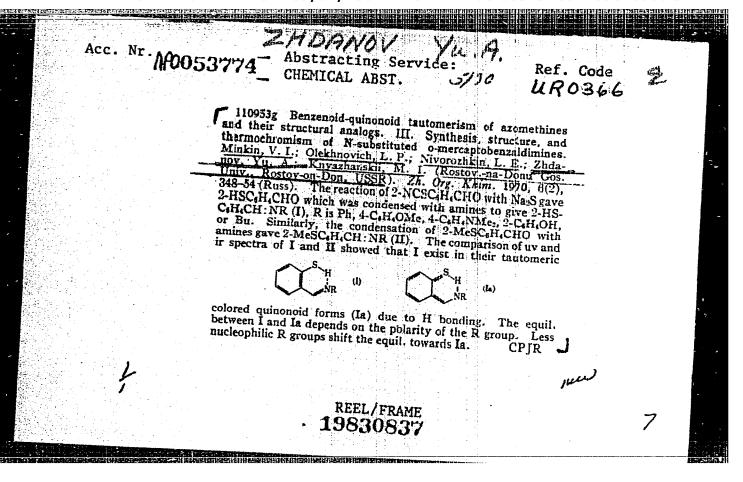
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USSR

UDC 631.893.12

BORISOV, V. M., ZHDANOV, Yu. F., DOKHOLOVA, A. N., POPOV, N. F., KONYUKHOVA, Ye. B., KIPRIYANOV, Yu. I., KARTOSHKIN, A. D., and KALASHNIKOV, V. A.

"Production of Granulated Ammophos Using the BGS Apparatus"

Moscow, Khimicheskaya Promyshiennost', No 12, 1973, pp 905-907

Abstract: Industrial experimental results are reported on the production of ammophos from the apathite concentrate. The method used involved evaporation of the pulp in a multiple unit vacuum evaporation apparatus followed by granulation in a BGS unit [Drum granulator-dryer]. Technological parameters are reported for the neutralization of the extracted phosphoric acid with ammonia, evaporation of the ammonized pulp, drying and granulation of

1/1

USSR

ZHRANOV, YU. K., Moscow

UDC: 531.1

"Solving Motion Equations for a Gyrohorizoncompass Under Conditions of Finite Angles

Moscow, Izvestiya Akademii Nauk SSSR, Mekhanika Tverdogo Tela, No 4, Jul-Aug 73, pp

Abstract: The author proposes a solution to the motion equations of a gyrohorizon-Compass at finite angles of deviation from the meridian. The solution is based on the noncomplex change of variables in A. Yu. Ishlinskiy's equations which makes it possible to obtain a linear system which reflects the behavior of a gyrohorizoncompass at finite angles of deviation from the meridian if the angles of deviation

USSR

WC 549.746

INDOLEY, L. K., ZHDANOV, YU. XA., KASHIRTSEVA, K. I., SHEKEY, V. S., and DEL YANIDI, K. I., Institute of Geology, Yakutsk Branch, Siterian Department

Hagnesium and Aluminum Hydrocarbonates - the New Mineral Indifirite"

Zapiski Vsesoyuznogo Hineralogicheskogo Obshchestva, 2nd Series, No 2, 1971,

Abstract: A new mineral has been found along the Indifinka river in Northeast Yakutia (near the Artic Circle). Called "indifirite," the mineral is a resette-like divergent, randomly arranged aggregate. In the center of the rosette there are occasionally fine "seed" hips. In the fine crakes, fanshaped deposits are cleabed by a mass of very fine fibers, needles, or Lamina about 1 mm in length. Indiffirite is snow-white, and has a glossy Inster with a silky cast. The hardness is about 2. The Lamina and fibers are elastic. The specific weight is 1.6 + 0.1.

Indigirite is not radioactive and is optically anisotropic. It is insoluble in water, alcohol, and ammonia. In acids and NDH 1t dissolves instantly, with the formation of orderless gas bubbles. Chemical analysis gave the following composition, (in wt.%): NgO, 12.08%; Al203, 14.58%; CaO

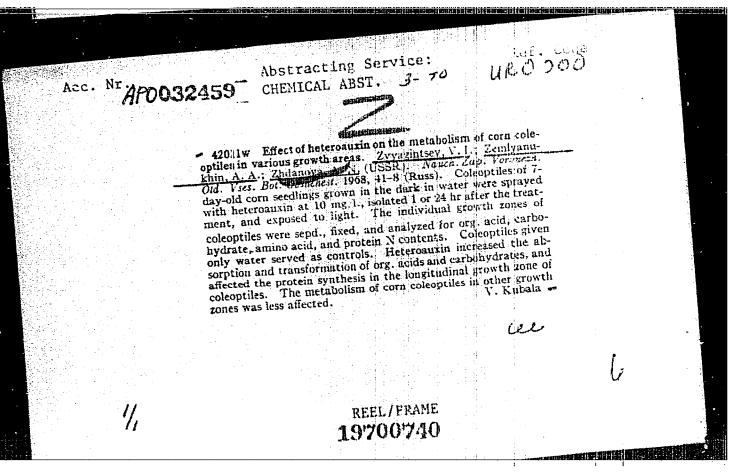
USSA

INDOIEV, L. H., et al., Zapiski Vsesoyusnogo Himmalogiicheskogo Obshchestva,

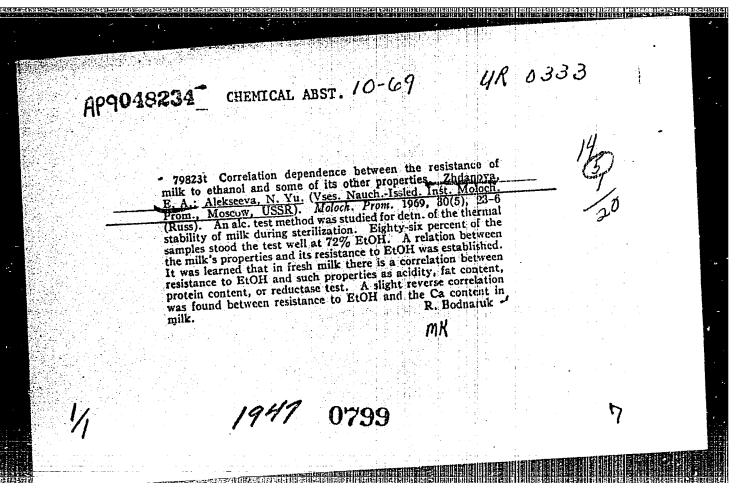
0.45% Fe₂0₃, 0.64% CO₂, 24,18%, H₂0, 44.36%, SO₃, 0.49%.

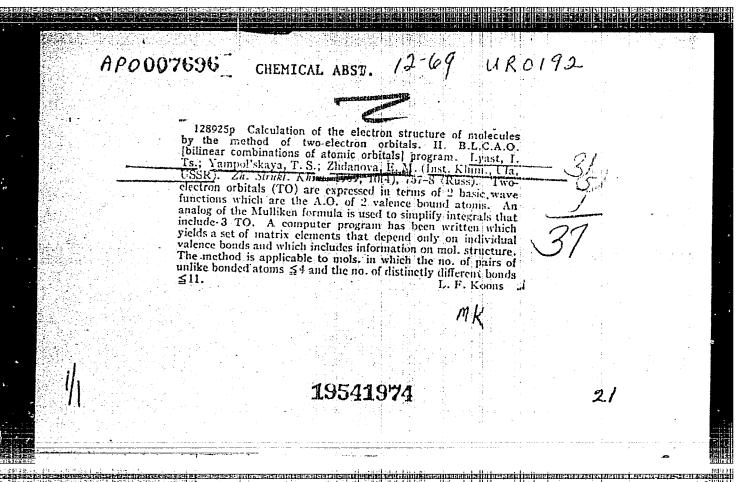
Electron microscopic pictures revealed elongated tabular forms with uneven edges. Fine naterial was noted in the crystalline spaces and dehydration of the mineral under vacuum was observed. The parameters of the de-hydrated crystals were found to be for c . 6.23 + 0.024 lengthwise and 3.164 0.024 crosswise, which was close to that of artinite. Nebye powder patterns for the untreated mineral did not match any known mineral or synthetic compound. Heat treatment at 100°C also gave an original Dubye pattern, but material heat treated at 900°C showed a spinel-type patition which is natural for a magnesium-aluminum hydrocarbonate. Heat loss curves showed endothermic minima at 120°, 160°, and 215°C. Very little change in weight was noted at 550°C for two of three samples. The peaks suggested loss of water of crystallization, hydroxyl water, and dissociation of complex carbonates. Infra-red spectra confirmed the proposed structure of the new mineral. Comparisons were also made with other water-containing magnesium or magnesium-alluminum carbonates.

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UDC 576.8.06.083.1(047)

ZHDANOVA, L. G., and GRUEER, I. M., Moscow Institute of Vaccines and Sera imeni Mechnikov

"Continuous Culture of Pathogenic Microorganisms (A Review)"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, 1973, pp 92-97

Abstract: Cortinuous culture makes it possible to obtain a microbial biomass that can easily exceed that obtained by conventional culturing 40-50 times per unit of time. Continuous culture offers a number of advantages as, for example, in the isolation of the M protein from group A hemolytic streptococci grown on a synthetic medium without proteins. In conventional culturing it is difficult to obtain this protein since it is rapidly degraded by proteases which accumulate in the medium. On the whole, it appears that continuous culture has been most often employed in the case of pathogenic microorganisms for the preparation of cellular vaccines, or vaccines consisting or cell products (toxins). However, continuous culturing is not used as widely as might be expected in view of the fact that in many cases the important antigenic determinant in a vaccine is not known, and because of the difficulty in keeping the apparatus sterile with respect to undesirable organisms. Most frequently, continuous culture is employed for the preparation of whooping cough vaccines. 1/1

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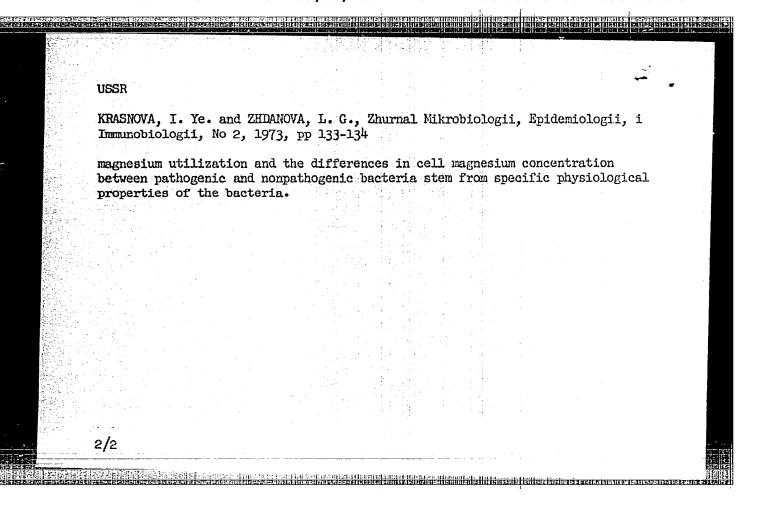
KRASNOVA, I. Ye., and ZHDANOVA, L. G., Moscow Institute of Vaccines and Sera imeni Mechnikov

"Utilization of Magnesium by Typhoid Bacteria During Continuous Culturing"

Moscow, Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 2, 1973, pp 133-134

Abstract: Utilization of magnesium by S. typhi vaccine strain Ty₂ 4446 was studied in the presence of varying glucose concentration (0.02-18 gm/liter) and dilution rates (0.2-0.7 liters/hour). The logarithm of the unit rate of consumption was found to be linearly proportional (to the 4th power) to the dilution rate in the presence of both excess and limited glucose. Such increases in consumption rates were reflected in cell magnesium content, which increased by a power of 2 in limited glucose and by a power of 3 in excess glucose. The number of cells in the culture was also important: Consumption rate in logarithmic terms was linear and inversely dependent on cell number. Finally it was shown that magnesium consumption rates varied more widely in response to changing dilution rates for pathogenic than nonpathogenic (eg Aerobacter aerogenes) bacteria. It is suggested that the effects of glucose content in substrate on 1/2

- 42 -



1/2 017 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--IMUNOLOGICAL STRUCTURE OF TULA POPULATION IN RESPECT TO MEASLES AT
DIFFERENT PERIODS OF THE YEAR -U-

AUTHOR-(04)-SILICH, V.A., KHAZANOV, M.I., ZHDANOVA, G.L., SEVEROV, A.M.

COUNTRY OF INFO--USSR

SOURCE--ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I IMMUNOBIOLOGII, 1970, NR 5, PP 109-115

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--IMMUNOLOGY, HEMASGLUTINATION INHIBITION TEST, MEASLES

CONTROL MARKING--NO RESTRICTIONS .

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/0150

PROXY REEL/FRAME--1994/0150 STEP NO--UR/0016/70/000/005/0109/0115

CIRC ACCESSION NO--APO114546

UNCLASSIFIED

017 UNCLASSIFIED PROCESSING DATE--160CT70 CIRC ACCESSION NO--APO114546 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IMMUNOLOGICAL STRUCTURE OF TULA POPULATION IN RESPECT TO MEASLES WAS STUDIED WITH THE AID OF HEMAGGLUTINATION INHIBITION REACTION. OVER 3,000 UNSELECTED CASES FROM VARIOUS AGE GROUPS WERE EXAMINED IN MARCH AND IN DECEMBER, 1966. THERE WAS NOTED A REGULARITY COMMON TO BOTH SEASONS: THE NUMBER OF POSITIVE REACTIONS INCREASED FROM 5-14PERCENT AT THE AGE OF 1-2 YEARS TO THE MAXIMAL IN SCHOOLCHILDREN AND ADULTS EQUAL TO SOPERCENT IN MARCH, AND 54PERCENT IN DECEMBER. IN DECEMBER (THE TIME OF INTENSIVE ELEVATION OF MEASLES INCIDENCE IN TULA) THE PERCENTAGE OF POSITIVE HEMAGGLUTINATION INHIBITION REACTIONS WAS MUCH LESS THAN IN MARCH. A FALL IN THE LEVEL OF IMMUNDLOGICAL REACTIONS IN DECEMBER COULD BE ATTRIBUTED TO THE DEPRESSIVE EFFECT OF NONSPECIFIC SEASONAL FACTORS ON THE GENERAL THMUNDLOGICAL REACTIVITY OF THE ORGANISM, AND ALSO TO REDUCTION OF THE CIRCULATION OF MEASLES VIRUS DURING THE PRECEDING PERIOD OF LOW MEASLES ONE OF THE CAUSES OF ELEVATION OF MEASLES INCIDENCE DURING THE AUTUMN WINTER PERIOD IS POSSIBLY A REDUCTION OF THE IMMUNITY LEVEL TO MEASLES AMONG THE POPULATION. FACILITY: TSENTRAL NYY

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

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USSR UDC: 533.6.011.8

VASIL'EV, L.A., ZHDANOVA, L.N. and KINAYCHEV, A.D.

"Moment Characteristics of 15-Degree Cones in Flow of Rarefied Gas"

Novosibirsk, Sb. Eksperim. Issled. i Vopr. Modelir. Techeniy Razrezhennogo Gaza (Symposium on Experimental Investigations and Modeling Problems of Rarefied Gas Flow), 1971, pp 105-111 (from Referativnyy Zhurnal-Mekhanika, 1973, Abstract No 2B266 by A. I. Bunimovich)

Translation: Results are presented of an experimental investigation to determine the aerodynamic moment of cones with 15° half-opening angle and with apex rounded to the radius of 0, 0.3, 0.6, 0.9 and 1.0, with Mach number of 4 to 7 and angle of attack from 0 to 180°. A continuous increase of non-dimensional aerodynamic moment coefficient with the decrease of Reynolds number is observed. The experimental data are compared to the calculation results based on Newton theory, Free Molecular Flow theory and theory based on local interaction hypothesis.

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USSR

UDC 576.858.13.098.31.095.383

LINITSKAYA, G. L., ZEDANOVA, L. V., MENTKEVICH, L. M., and GALEGOV, G. A., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, and Institute of Epidemiology and Microbiology imeni N. F. Gamaleya, Academy of Medical Sciences USSR, Moscow

"The Effect of Interferon on Induction of Alkaline and Acid DNA-ses in Cell Culture Infected With Vaccinia Virus"

Moscow, Voprosy Virusologii, No 5, Sep/Oct 70, pp 549-552

Abstract: The effect of interferon on virus-induced synthesis of alkaline (early) and acid (late) DNA-ses was studied. It was found that both enzymes are highly sensitive to interferon and were significantly inhibited by it even in the lowest dose studied. The highest concentration tested completely blocked their synthesis. However, the interferon concentrations used were not sufficient to inhibit production of the infectious virus. Interferon prevents the combination of cell ribosomes with viral RNA to form virul polysomes and, eventually, virus-specific early proteins. As a result, synthesis of viral DNA polymerase and, consequently, of viral DNA is inhibited. This process did not occur in the system studied. Evidently DNA polymerase is less sensitive to the effect of interferon. The tests suggest that vaccinia virus can 1/2

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	LINITSKAY	A, G.	L.,	et a	l, Vopros	y Virus	ologii,	No 5,	Sep/Oc	t 70 ,	pp 54	9-552	
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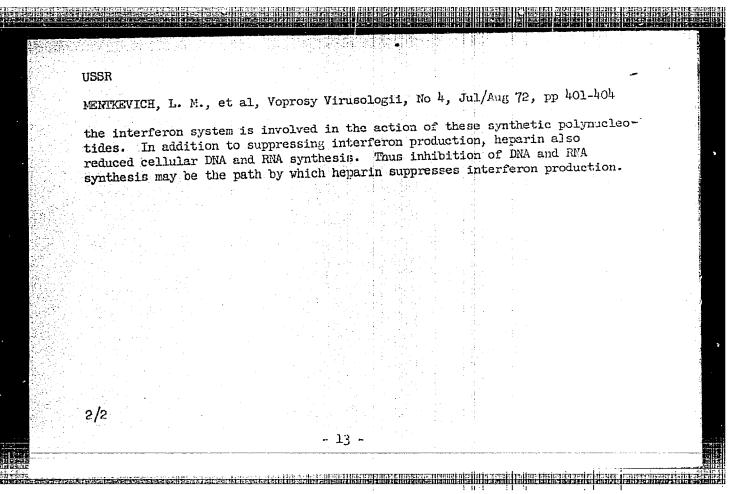
UDC 576.858.095.383.095.18:615.273.53

MENTKEVICH, L. M., ZHDANOVA, L. V., ORLOVA, T. G., and SOLOV'YEV, V. D., Institute of Epidemiology and Microbiology imeni N. F. Gamaleya, Academy of Medical Sciences USSR, Moscow

"The Effect of Heparin on Interferon Induction and Interference Caused by Viruses and Synthetic Polymucleotides"

Moscow, Voprosy Virusologii, No 4, Jul/Aug 72, pp 401-404

Abstract: Chick embryo cells infected with Newcastle disease virus (NDV) and vesicular stomatitis virus (V3V) were treated with heparin to study the role of interferon in homologous and heterologous viral infections and in the defense reaction caused by synthetic interferon inducer (poly I;C). Although heparin had no effect on interferon activity itself, it did inhibit interferon production stimulated by the viruses and by poly I;C, even when poly I;C was combined with DEAE-dextran. Interference of NDV reproduction remained unchanged when cultures treated with heparin were infected with a homologous virus, while a great degree of suppression of such interference was noted in heparin-treated cultures infected with both NDV and VSV. This indicates that the interferon system is not involved in the interaction between homologous viruses, but that it is involved in heterologous interference. The effect of heparin on the action of poly I;C and a commination of poly I;C and DEAE-dextran indicates also that 1/2



UNCLASSIFIED PROCESSING DATE--300CF70

TITLE--INVESTIGATION OF HOMOLOGOUS INTERFERENCE OF NEWCASTLE DISEASE

VIRUS. GOMMUNICATION II: HOMOLOGOUS INTERFERENCE CAUSED BY PARTIALLY

AUTHOR-(02)-ZHDANOVA. L.V., MENTKEVICH, L.M.

COUNTRY OF INFO-USSR

SOURCE-VOPROSY VIRUSOLOGII, 1970, NR 3, PP 295-297

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-NEWCASTLE DISEASE VIRUS, INTERFERON, TISSUE CULTURE, IRRADIATION EFFECT

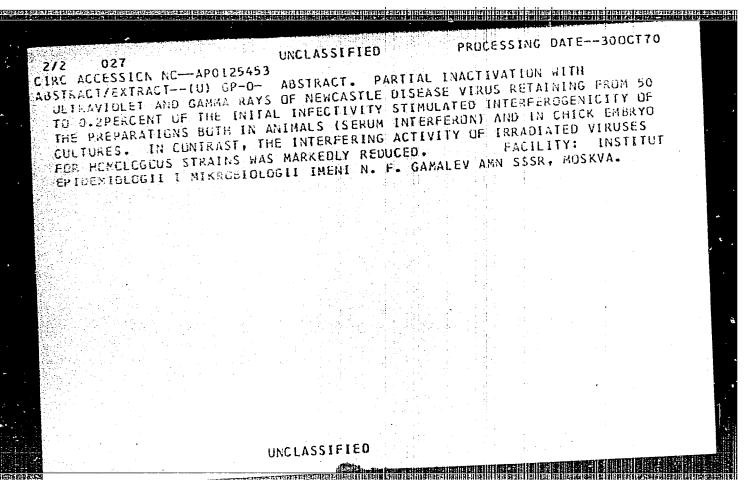
CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2G00/L842

STEP NO--UR/0402/70/000/003/0295/0297

CIRC ACCESSION NO-APO125453

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UDC 582.288.577.391

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ZHDANOVA N.M., and BONDAR, A. I., Institute of Microbiology and Virology, Academy of Sciences, Ukrainian SSR

"The Radioresistance of Lyophilized Cladosporium Sp. 396 Conidia"

Kiev, Mikrobiolohichnyy Zhurnal, Vol 32, No 1, Jan/Feb 70, pp 32-35

Abstract: The effect of gamma-radiation from 0000 on the radioresistance of dry conidia of Cladosporium sp. 396 was studied. The Weston Lyophilization method was used to dry the conidia. Experiments showed that the resistance of lyophilized conidia to gamma-radiation is noticeably lower than that of untreated wet controls. A dose relationship was discovered between survival and irradiation in the range 130-270 rad/sec, similar to previously observed phenomena with untreated conidia in water and on a cover glass. It was suggested that the reason for the lower resistance to gamma-radiation of fungal conidia is due to changes in the chemical structure of fungal melanine due to lyophilization.

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Izvestiya Akademii Nauk SSSR, Seriya PRIMARY SOURCE:

Biologicheskaya, 1970, Nr 1, pp 83 86

N. N. ZHDANOVA, V. D. POKHODENKO

EPR SPECTRA AND RADIORESISTANCE OF SOME SPECIES OF THE DEMATIACEAE FAMILI

D. K. Zabolotni Institute of Microbiology and Virology, Academy of Sciences, UkrSSR

Analysis of EPR spectra in lungi of the Dematiaceae famili has shown that the concentration of paramagnetic particles in this case is at least by 3-4 orders higher than in the fungi lacking this pigment, this amounting to 1017-1018 pp/g. A simbatic dependance of radioresistance of 7 species (9 strains) of darkcoloured hyphomycetes on the concentration of pp was found. The radioresistance of the samples increased parallel to the increment of the amount of p. particles.

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UNCLASSIFIED

PROCESSING DATE--160CT70

TITLE--PULMONARY EMPHYSEMA IN THE LIGHT OF FUNCTIONAL DATA -U-

AUTHOR-(02)-ZHDANOVA, N.S., KIRILLOVA, I.I.

COUNTRY OF INFO--USSR

SOURCE--TERAPEVTICHESKIY ARKHIV, 1970, VOL 42, NR 5, PP 63-66

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--PULMONARY EMPHYSEMA, DIAGNOSTIC MEDICINE, ELECTROCARDIOGRAPHY, HYPOXEMIA

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0013

STEP NO--UR/0504/70/042/005/0063/0063

CIRC ACCESSION NO--APO120713

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

PROCESSING DATE--160CT70 UNCLASSIFIED 021 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE AUTHORS INVESTIGATED THE 2/2 FUNCTIONAL CONDITION OF THE LUNGS AND HEART IN 92 PATIENTS WITH PULMONARY EMPHYSEMA AND DETERMINED THE INDICES OF PULMONARY VENTILATION. VITAL CAPACITY AND RESIDUAL VOLUME (HELIUM METHOD), INDICES OF BRONCHIAL PATENCY: INSPIRATION AND EXPIRATION CAPACITY (PREUMOTACHOMETRY), MAXIMUM PULMONARY VENTILATION AND FORCED SINGLE SECOND VITAL CAPACITY AFTER TIFFNO VOTCHAL. TO JUDGE UPON THE HEART CONDITION THE EEG WAS STUDIED. THERE WAS A CLUSE RELATIONSHIP BETWEEN THE VALUE OF THE RESIDUAL VOLUME AND THE INDICES OF BRONCHIAL PATENCY (EXPIRATION CAPACITY, MAXIMUM PULMUNARY VENTILATION, FORCED VITAL CAPACITY OF THE LUNGST. THE USE OF BRONCHOLYTIC SUBSTANCES IMPROVED BRONCHIAL PATENCY AND DEMONSTRATED REVERSIBILITY OF EMPHYSEMA. IT WAS ESTABLISHED THAT THE EXTENT OF MARKEDNESS OF ARTERIAL HYPOXEMAIA DEPENDED UPON THE IRRAGULARITY OF ALVEOLAR VENTILATION AND WAS NOT ASSOCIATED WITH THE EXTENT OF MARKEUNESS OF PULMONARY EMPHYSEMA. DISTINCT SIGNS OF THE RIGHT HEART OVERSTRAIN ACCORDING TO ECG DATA APPEAR ONLY IN EXTENSIVE EMPHYSEMA WHEN THE RESTOUAL VOLUME OF THE LUNGS IS NOT OVER THAN FACILITY: TSENTRAL NAYA SOPERCENT OF THEIR TOTAL CAPACITY. KLINICHESKAYA BOLINITSA 4-GO GLAVNOGO UPRAVLENIYA MINSTERSTVA ZDRAVOOKHRANENIYA SSSR, MOSCOW. UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

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UDC: 621.372.852:621.317

PETROSYAN, F. N., ZHDANOVA, T.

"Error Analysis in a Microwave Polarization Phase Shifter, and Methods of Certification"

Tr. VNII fiz.-tekhn. i radiotekhn. izmereniy (Works of the All-Union Scientific Research Institute of Physicotechnical and Radio Engineering Measurements), 1970, vyp. 2(32), pp 102-106 (from RZh-Radiotekhnika, No 5, May 71, Abstract No 5A215)

Translation: The paper presents the results of an analysis of partial and total errors in microwave polarization phase shifters. An estimate is given of the certification error in the output spectrum of the phase shifters due to mismatches in the measurement channel. One illustration, bibliography of five titles. Resumé.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

1/2 019 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE-DISPERSE CONDENSATION STRUCTURES OF POLYESTER URETHANES -U-

AUTHOR-(04)-YABKO, YA.M., POLINSKIY, S.L., ZHDANOVA, V.I., VLODAVETS, I.N.

CCUNTRY OF INFO-USSR

SOURCE-DOKL. AKAD. NAUK SSSR 1970, 191(1), 155-7

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY, MATERIALS

TOPIC TAGS-PLASTIC FILM, POLYURETHANE RESIN, POLYGLYCOL, ORGANIC ISOCYANATE, CAPROLACTAM, POROSITY, MOLECULAR STRUCTURE

CONTROL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME--2000/1091

STEP NO--UR/0020/70/191/001/0155/0157

CIRC ACCESSION NO--ATOL24748

UNCLASSIFIED

PROCESSING DATE-300CT70 UNCLASSIFIED 019 2/2 CIRC ACCESSION NO--ATO124748 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. POROUS POLYURETHANE FILMS WERE PREPD. FROM THE REACTION PRODUCTS OF POLY(PROPYLENE GLYCOL), MOL. WT. SIMILAR TO 2000, H SUB2 NNH SUB2 .H SUB2 O. AND TOLYLENE DIISOCYANATE. OR OF POLYCAPROLACTAM, BUTANEDIOL, AND BISIISOCYMNATOPHENYLIMETHANE. THESE POLYMERS WERE SOL. IN ALL PROPERTIONS IN HOUNME SUB2, HOWEVER THE ADDN. OF 5-10PERCENT H SUB2 O (PREFERABLY BY THE ABSORPTION OF H SUB2 O VAPOR) CAUSED THE SEPN. OF THE POLYMER GLOBULES WHICH SETTLED, FORMING PORGUS AND ELASTIC FILMS (ELONGATION AT BREAK SMALLER THAN OR EQUAL TO 700PERCENT, H SUB2 O (G) PERMEABILITY SIMILAR TO 6 MG-CM PRIMEZ-HR). THE EFFECT OF THE ANT. OF H SUB2 O. AND THE TEMP. ON THE SOLN. METASTABILITY AND THE FILM PROPERTIES WERE ESTABLISHED. VSES. NAUCH.-ISSLED. INST. PLENOCHNYKH HATER. ISKUSSIV. KOZHI, MOSCOW, UNCLASSIFIED.

1/2 010

UNCLASSIFIED

PROCESSING DATE--300CT70

TITLE--DETERMINATION OF THE FAT CONTENT IN HOMOGENIZED MILK -U-

AUTHOR-(02)-PATRATIY, A.P., ZHDANOVA, YE.A.

COUNTRY OF INFO--USSR

SOURCE--MOLUCH. PROM. 1970, 31(3), 15-16

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--PROCESSED ANIMAL PRODUCT, FAT, FOOD ANALYSIS, CENTRIFUGATION

CONTROL MARKING--NO RESTRICTIONS

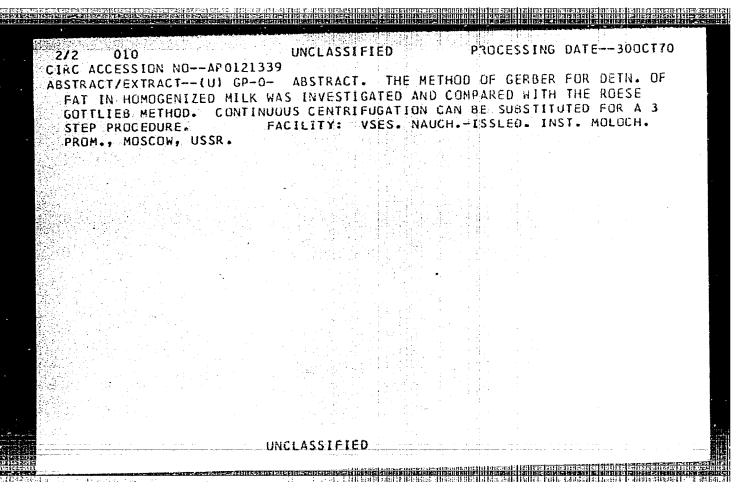
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0678

STEP NO--UR/0333/70/031/003/0015/0016

CIRC ACCESSION NO--APO121339

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"



Measuring, Testing, Calibrating

USSR

UDC: 550.834

BIBER, L. A., ZHDANOVA, Yu. Ye., LEGKIY, G. K., All-Union Scientific Research Institute of Electric Power Engineering

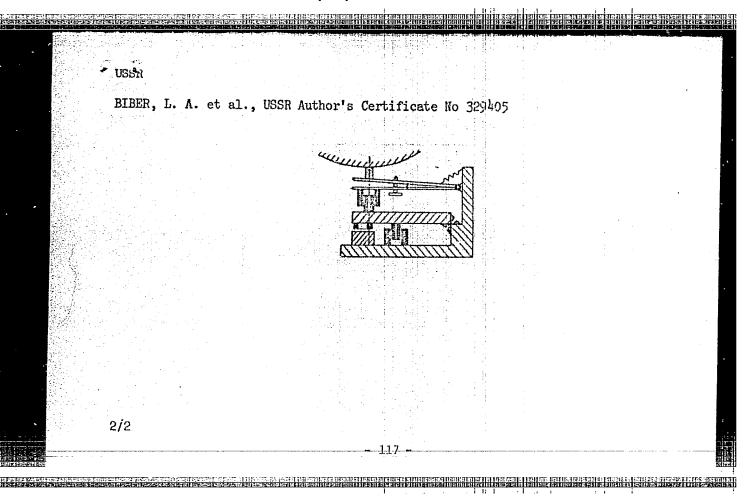
"A Seismic Vibration Pickup"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 7, Mar 72, Author's Certificate No 329405, Division G, filed 30 Jul 70, published 9 Feb 72, p 160

Translation: This Author's Certificate introduces a seismic vibration pickup which contains measurement and balancing transducers. As a distinguishing feature of the patent, the device is designed for measuring the absolute
vibration of a rotating shaft. It is equipped with an additional measurement
transducer with secondary winding securely connected to a pendulum at its
point of rest, and primary winding fastened on a lever which is one of two
making up a system in which the other lever carries a contact brush located
on one axis with the transducer windings. A pressure spring is also fastened to this other lever. The levers of the system are interconnected by
a common axis of rotation, a micrometer screw and a helical spring.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"



UDC 611.136.02:612.014.47

USSR

ZHDANOVA, Z. N., Department of Normal Anatomy, 1st Leningrad Medical Institute imeni I. P. Pavlov

"The Effect of Gravitational Stress on the Blood Vessels of the Peritoneum"

Leningrad, Arkhiv Anatomii, Gistologii i Embriologii, Vol 64, No 5, 1973, pp 98-102

Abstract: The purpose of the investigation was to study the state of the vascular and terminal bed of the animal (cat) peritoneum after gravitational stress. In the first four series of experiments (15 animals each) the cats were subjected to single unendurable stresses of longitudinal (cranio-caudal and caudal-cranial) and transverse (ventro-dorsal and dorsal-ventral) direction. A fifth series tested the effect of regular, functionally endurable stresses, and the final series was an attempt to increase the resistance of the animals to the stress through conditioning. The methods of roentgenothe animals to the stress through conditioning. The methods of roentgenothe animals to the stress through conditioning. The methods of the stresses graphy and clearing the section were employed. After unendurable stresses in the cranio-caudal direction, dilated blood vessels and rupturing of the walls of the arterioles, venules, and capillaries were observed. Vessels in the parietal peritoneum became rarefied. Dilation of all links of the arterial and venule walls were

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ZHDANOVA, Z. N., Arkhiv Anatomii, Gistologii i Embriologii, Vol 64, No 5, 1973, pp 98-102

found in the mesentery of the small intestine. After unendurable ventrodorsal stresses the blood-vascular network of the peritoneum showed sinuosity of the vessels, more anastomoses, and dilation of the components of the microcirculatory bed, while capillaries were constricted only in the mesentery of the small intestine. After unendurable dorsal-ventral stresses, vessels of uneven diameter appeared in the circulatory system of the peritoneum. Microvaricose dilations, more pronounced along the course of the veins, alternated with sharply constricted portions. All components of the microcirculatory bed were dilated, while the capillaries of the mesentery of the small intestine were constricted. The final series indicated that animal endurance to stresses can be increased significantly by training on the centrifuge. In these animals a slight dilation and sinuosity of the blood vessels was observed, a compensatory-adaptational change.

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UDC 669.046.5

USSR

SITNIKOV, V. F., VERKHOVTSEV, E. V., VASIL'YEV, N. Ye., ZHDANOVICH K. K. and UPSHINSKIY. Ye. A.

"Development of the Technology for High-Quality Alloy Steel Making in Martin Furnace With Deoxidation and Alloying in Ladle With Liquid Alloy and Simultaneous Refining With Synthetic Slag"

Moscow, V sb. "Sovremennyye problemy kachestva stali" (MISiS). (Collection of Works. Modern Problems of Steel Quality), (Moscow Institute of Steel and Alloys). Izd-vo "Metallurgiya," No 61, 1970, pp 250-252

Translation of Abstract: Results are presented on the joint treatment of martin steel in a ladle by liquid alloys and synthetic slags, resulting in a substantially increased assimilation of the alloying elements, in a high degree of desulfurization and dephosphorization, and in reduction of steel contamination by nonmetallic impurities. The quality of metal obtained is similar to that produced in electric furnaces. 2 tables.

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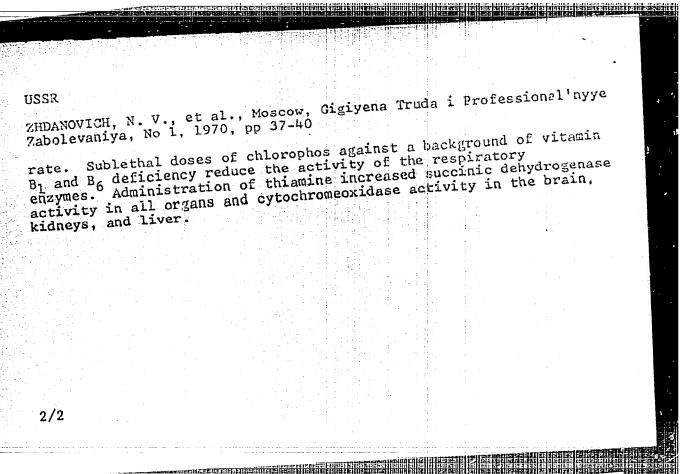
ZHDANOVICH, N. V., and UDALOV, YU. F., Medical Institute imeni I. USSR

"Prophylactic and Therapeutic Effectiveness of Some Vitamins in P. Pavlov

Moscow, Gigiyena Truda i Professional nyye Zabolevaniya, No 1, 1970,

Abstract: An endogenous vitamin deficiency was induced in rats by injections of antimetabolites hydroxythiamine, H-desoxypyridoxine, ethionamide, cycloserine, cetamiphen). Neither thiamine nor pyridoxine had any prophylactic or therapeutic value when animals were poisoned with chlorophos (Dipterex) (2 LD50). However, the vitamins increased the animals' survival rate considerably when a smaller dose of chlorophos (LD50) was used, because the poisoning developed more slowly. Hydroxythlamine hypovitaminosis did not reduce the more slowly. Hydroxythlamine hypovitaminosis did not reduce the survival rate, although the clinical course of the poisoning was very severe. The administration of other antimetabolites (ethionamide, 4-desoy pyrimidine, etc) had little effect on the survival 1/2 _ 93 -

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UDC 615.285.7.099.036.11.085.356:577.164.1 ZHDANOVICH W. V., and UDALOV, YU. F., Ryazan' Medical Institute USSR "The Role of Thiamine and Pyridoxine in Acute and Subacute Intoxicaimen1 I. P. Pavlov tion with the Organophosphorus Insecticide Dipterex" Moscow, Voprosy Pitaniya, Vol 29, No 1, Jan/Feb 70, pp 28-34 Abstract: The toxicity and effect of dipterex on tissue respiration was studied depending on levels of thiamine and pyridoxine in the organism with acute or subacute toxicity. Male and female rats were given 1140 or 570 mg/kg of dipterex orally (acute intoxication) were given it to or one mg/Ng of dipterex (subscute poisoning) per day. The vitamins or 57 mg/kg of dipterex (subscute poisoning) per day. (thiamine hydrochloride and pyridoxal phosphate) and their antimete-bolites (oxythiamine and 4-desoxypyridoxine were injected intramuscularly. Thiamine and pyridoxine, introduced into the organism at different periods following a dipterex dose of 1140 mg/kg. had no marked protective or curative effect but in all cases prolonged the marked protective or curative effect but in all cases marked protective or curative effect, but in all cases prolonged the lifespan of animals. With the 570 mg/kg dose of dipterex, both the protective and "therapeutic" effects were fairly distinct. Partial thiamine and pyridoxine deficiency aggravated the clinical picture _ 94 -1/2

ZHDANOVICH, N. V., et al., Moscow, Voprosy Pitaniya, Vol 29, No 1, Jan/Feb 70, pp 28-34

(oxythiamine) and enhanced the toxic effects of the preparation (4-desoxypridoxine). Subacute dipterex poisoning was characterized by changes in succinate dehydrogenase and cytochromoxidase activity, by changes in succinate dehydrogenase and cytochromoxidase activity, especially when poisoning was combined with experimentally induced hypovitaminosis. The enhanced toxic effect of dipterex under these conditions was also confirmed by weight changes of animals. Introduction of dipterex simultaneously with thiamine and pyridoxine duction of dipterex simultaneously with the company of the confirmed by the confir normalized the activity of respiratory enzymes, lessening the severity of the clinical picture and preventing weight loss.

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UR 0244 Ref. Code:

Voprosy Pitaniya, 1970, Vol 29, Nr 1,

PRIMARY SOURCE: pp 28-34

THE ROLE OF THIAMINE AND PYRIDOXINE IN ACUTE AND SUBACUTE POISONING WITH DIPTEREX - AN ORGANOPHOSPHORUS INSECTICIDE

N. V. Zhdanovich, Yu. F. Udalov (Ryazan)

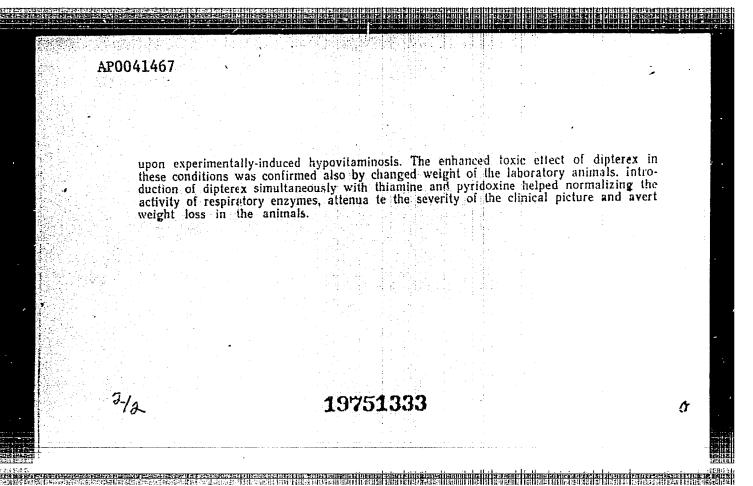
Summary

The toxicity and the effect of dipterex on the tissue respiration depending upon the The toxicity and the effect of dipterex on the tissue respiration depending upon the thiamine and pyridoxine allowances of the organism were sludded in acute and subacute thiamine and pyridoxine allowances. The laboratory animals were poisoned by petests set up on albino rats of both sexes. The laboratory animals were poisoning) tests set up on albino rats of both sexes. The laboratory animals were poisoning) roral administration of the preparation in doses of 1140, 570 mg/kg (acute poisoning) and in that of 57 mg/kg per day (subacute poisoning). Vitamins (thiamine hydrochloride and pyridoxalphosphate) and their antimetabolites (oxythiamine and 4-desoxypyridoxine) and pyridoxalphosphate) and their antimetabolites (oxythiamine and the organism at were injected intramusculate. Thiamine and pyridoxine introduced into the organism at and pyridoxalphosphate) and their antimetabolites (oxythiamine and 4-desoxypyridoxine) were injected intramusculally. Thiamine and pyridoxine introduced into the organism at different time periods following acute dipterox poisoning in a dose of 1140 mg/kg (2LD₅₀) were found not to produce any marked protective and curative effect, but in all test series the life-span of the poisoned animals was lengthened. With dipterox poisoning test series the life-span of the poisoned animals was lengthened. With dipterox poisoning in a dose of 570 mg/kg (LD₅₀) both the protective and "therapeutic" effects were fairly in a dose of 570 mg/kg (LD₅₀) both the protective and "therapeutic" effects were fairly distinct. Partial thiamine and pyridoxine deficiency aggravated the clinical picture (oxythiamine) and raised the toxic effect of the preparation (4-desoxypyridoxine) (oxythiamine) and raised the toxic effect of the preparation (4-desoxypyridoxine) bacute dipterox poisoning was characterized by material changes in the activity of the bacute dipterox poisoning was characterized by material changes in the protective and cytochromoxidase, especially with the poisoning superimposed succinate dehydrogenase and cytochromoxidase, especially succinate dehydrogenase and cytochromoxidase, especially with the poisoning superimposed

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PRIMARY SOURCE:

Gigiyena Truda i Professional nyye Zabolevaniya,

1970, Nr 1, pp 37-40

PROPHYLACTIC AND THERAPEUTIC EFFECTIVENESS OF SOME VITAMINS

IN CHLOROPHOS POISONING

N. V. Zhdanouich, Yu. F. Udalov

Summary

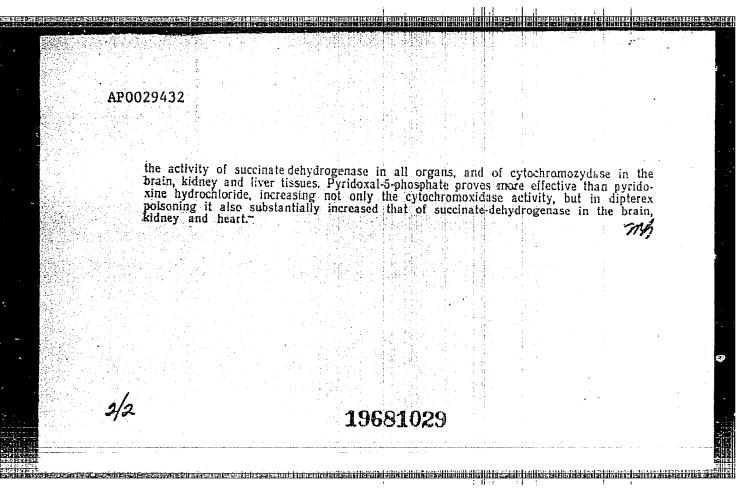
Experimental investigations on albino rats were carried out to determine the toxicity parameters of the insecticide dipterex with varying vitamin allowances of the animal organism and also to decode the mode of thiamine and pyridoxine action in poisoning with this insecticide. As evidenced, when introduced 25 minutes before application of dipterex (LD₂₀-570 mg/kg) and also at the appearance of intoxication symptoms, thiamine regularly increases the survival rate in the animals. Prophylactic administration of pyridoxine likewise lengthens the survival time. Antimetabolites (axythiamine and 4-desoxypyridoxine) appreciably complicate the clinical picture of the dipterex poisoning, while 4-desoxypyridoxine, when given in a dose of 50 mg/kg, tends to markedly raise the toxicity of the preparation: Subacute poisoning produced by introduction of dipterex (1/10 LD₂₀) and also of dipterex applied against the background of the B₁ and B₂ vitamin deficiency, is attended by decreased respiratory enzymes activity. Thiamine exerts normalizing influence, raises

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ZHDANOVICH, V. A., and OLEYNIK, A. I., Engineers

"Conference on the Current State and Prospects for Development of Weldment Production in the Machine-Tool Industry"

Moscow, Svarochnoye Proizvodstvo, No 3, Mar 71, p 59

Abstract: The conference was held in October, 1970 in Kiev and was attended by 300 persons representing 108 enterprises and 55 institutes and other organizations.

The conference was opened by the Chief of the Department of the Main Administration for the Ministry of Machine Tool-Building and the Tool Industry, V. V. Fruktov.

A. A. Mazur (VISP) gave a full analysis on the state of welding production in tool making. P. V. Ignatenko (Institute of Electric Welding imeni YE. O. Paton) presented information on successes in the development of welding in the USSR in the last 1971-75. It was noted that weldment output in the USSR has risen

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ZHDANOVICH, V. A., and OLEYNIK, A. I., Svarochnoye Proizvodstvo, No 3, Mar 71, p 59 40% in the last four years. YE. V. Favrilov (VISP) discussed the work of VISP in basic directions for planning complex means of mechanizing production processes, transportation, and technology.

M. G. Be l'for (Institue of Electric Welding imeni YE. O. Paton) reported on works of the Institute in the area of developing equipment for electric-arc welding. YA. YE. Kogut (VISP) discussed problems of creating mechanical welding equipment in the 1971-80 period. I. A. Markus (VISP) reported on the methodological problems of inter-plant analysis of work of welding shops and proposed scientifically based measurements of the technical and economical level of welding production. anslysis is being done with computers to accelerate its accomplishment.

V. I. Snezhko (Institue of Electric Welding imeni YE. O. Paton) discussed problems of welding production economies. 2/3

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ZHDANOVICH, V. A., and OL MNIK, A. I., Svarochnoye Proizvodstvo, No 3, Mar 71, p 59

Yushanin (Kolomensk Heavy Tool-Building Plant) related his experience in calculating and building welded base parts at the plant.

A. M. Suptel' (Institute of Electric Welding imeni YE. O. Paton) reported on the level of development of theoretical aspects in welding with powdered rod and the sphere of its application in the Soviet Union. In his report G. M. Man (Kiev "Krasnyy Ekskavator" Plant) discussed experience in the introduction of progressive methods of automatic and semi-automatic welding with delegates about the welding, brazing, and cutting of iron at the Moscow "Stankolit" Plant and theRyazan "Tsentrolit" Plant as well as about flame methods of surface and separating cutting in the trimming and cleaning of castings.

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UDC 681.888:621.762

KONOVALOV, Ye. G., Academician of the Academy of Sciences BSSR, ZHDANOVICH, V. M., Minsk Radio Engineering Institute

"Effect of Ultrasonic Oscillations on the Compaction of Metal Powders"

Minsk, Doklady Akademii nauk BSSR, No. 3, Mar 71, pp 219-221

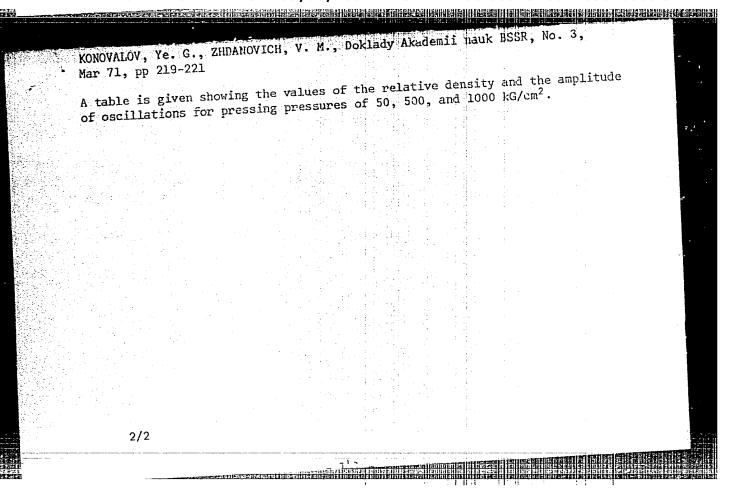
Abstract: Experimental studies of the effect of ultrasonic oscillations on the relative density of a briquette are reported and the results of the experiments are reduced to a table. Processing of experimental data established that the relative density θ_a under the effect of ultrasonic oscillations is proportional to the residual porosity $(1-\theta_a)$, the amplitude of the oscillations A and inversely proportional to the pressing height h. The following expression is derived for the static load under pressing with the application of ultrasonic oscillations

$$P_0' = P_k \left[1 - e^{K \frac{A}{h}} (1 - \theta_a) \right]^m$$

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UDC: 8.74

ZHDANOVICH, V. V.

"Processing Data of Vertical Seismic Profiling. The 'VSP-1' Program (Description, Instructions and Text of the Program)"

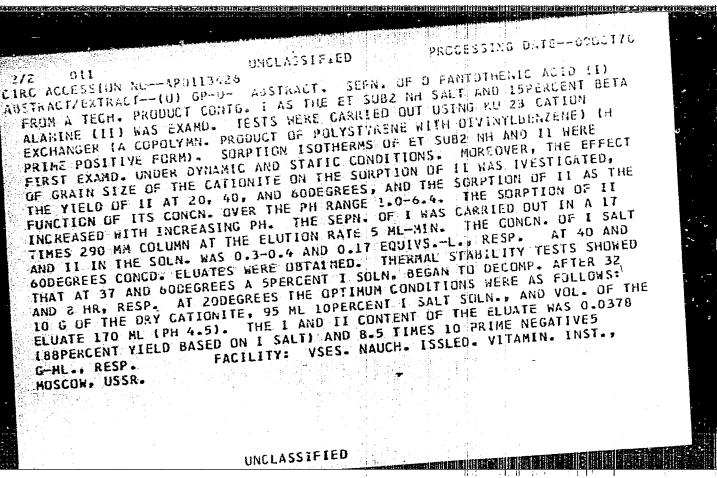
Tr. Zap.-Sib. n.-i. geologorazved. neft. in-t (Works of the West Siberian Scientific Research Institute of Geological Petroleum Prospecting), 1972, vyp. 55, pp 129-144 (from RZh-Kibernetika, No 10, Oct 72, abstract No 10V640 [author's abstract])

Translation: A program in Minsk-22 computer codes uses the method of least squares to estimate the depth to the reflecting surface and the velocity parameters of the medium from a system of longitudinal vertical hodographs for incident and reflected waves.

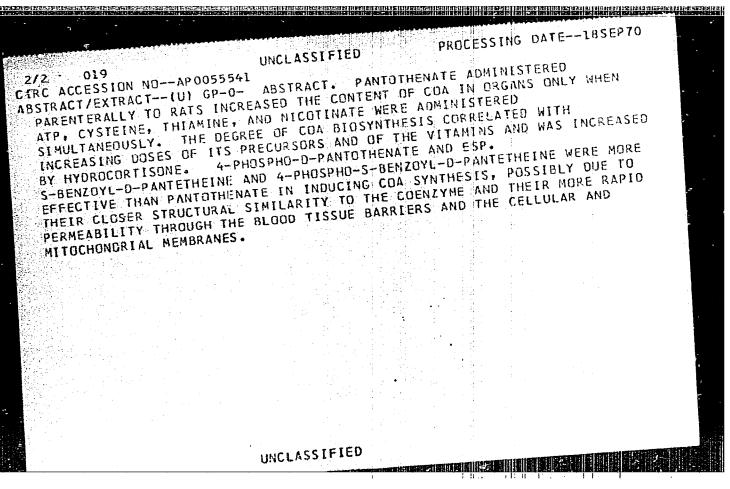
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1/3 054 UNCLASSIFIED PROCESSING DATE-230CT70

TITLE-ON THE POSSIBILITY OF PRODUCING REFRACTORY METALS AND COMPOUNDS IN:

A LOW TEMPERATURE PLASMA -UAUTHOR-(02)-ZHDANOVSKIY, A.A., LAKOMSKIY, V.I.

COUNTRY OF INFO--USSR

SOURCE--KIEV, POROSHKOVAYA METALLURGIYA, NO 3, MAR 70, PP 16-22

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR, PHYSICS

TOPIC TAGS--REFRACTORY METAL, BORON NITRIDE, NIOBIUM COMPOUND, MOLYBUENOM OXIDE, PLASMA ARC, LOW TEMPERATURE PLASMA, ARGON, PLASMATRON, METAL OXIDE, PLASMA ARC, LOW TEMPERATURE PLASMA, ARGON, PLASMATRON, METAL POWDER, TITANIUM NITRIDE, REPRACTORY COMPOUND, WELDING RESEARCH FACILITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0407

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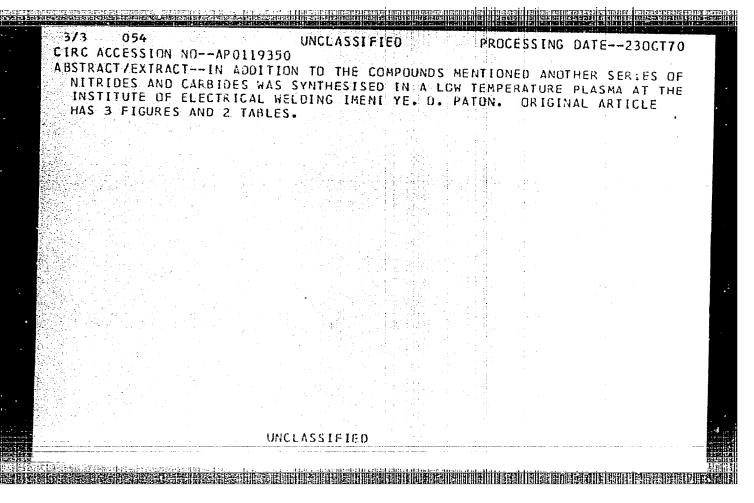
CIRC ACCESSION NO--APO119350

UNCLASSIFIED

PROCESSING DATE--230CT70 4位学研制的 UNCLASSIFIED ABSTRACT. THE POSSIBILITY OF PRODUCING CIRC ACCESSION NO--APO119350 REFRACTORY METALS AND COMPOUNDS IN A LOW TEMPERATURE PLASMA WAS ABSTRACT/EXTRACT--(U) G9-0-EXPERIMENTALLY INVESTIGATED. A SCHEMATIC DIAGRAM OF THE EXPERIMENTAL PLASMATRON, A REACTOR, A TEMPERING CHAMBER, CYCLONES, A POWDER FEEDER, A DC SOURCE, CONTROL AND WATER COOLING SYSTEMS, A GAS FEEDER, AND A TUNGSTEN ROD ANODE, A COPPER MUXILIARY ANODE, AND AN ANODE NOZZLE ARE THE BASIC COMPONENTS OF THE PLASMATRON. ON PLASMA REDUCTION OF THE NIOBIUM AND MOLYBDENUM OXIDES, USING ARGON AS A PLASMA GENERATING AND DRIVER GAS. ARE PRESENTED IN TABULAR FORM AND ANALYZED. IT IS SHOWN THAT THE DEGREE OF REDUCTION OF THE NIOBIUM AND MOLYBDENUM OXIDES CAN BE SUBSTANTIALLY INCREASED BY A SUFFICIENT INCREASE IN THE TEMPERING SPEED WHICH WOULD PREVENT THE OCCURRENCE OF BACK REACTIONS, AND BY PASSIVATING THE OBTAINED POWDERS WITH CARBON RESULTS ARE ALSO PRESENTED ON THE SYNTHESIS OF BORON AND TITANIUM NITRIDES USING NITRUGEN AS A PLASMA GENERATING AND DRIVER GAS. THE PRODUCTS OF PLASMA SYNTHESIS OF NITRIDES WERE STUDIED BY COMPARING THE X RAY PICTURES OF THE FINAL PRODUCTS WITH STANDARD SAMPLES. NITROGEN CONTENT WAS DETERMINED BY THE KJELDAHL METHOD. X RAY PHOTOGRAPHS OF A SYNTHESIZED BORON NITRIDE, A STANDARD NITRIDE SAMPLE, AND AN ORIGINAL AMORPHOUS BORON ARE PRESENTED. IT IS STATED THAT THE PROCESS OF PRODUCING BORUN AND TITANTUM NITRIDES, USING THE NITROGEN PLASMA AS A REACTION MEDIUM, IS BOTH PRACTICAL AND FEASIBLE.

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ASHMARIN, I. P., ZHDAN-EUSHKINA, S. M., KOKRYAKOV, V. I., SAMEDOV, A., Sh., and ANTONOVA, S. N., Leningrad State University

"Antibacterial and Antiviral Functions of Basic Cellular Proteins and Prospects for Their Practical Use"

Leningrad, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 4, 1972, pp 502-508

Abstract: After noting the functions of basic proteins in chromatin, ribosomes, lysosomes, etc., the authors review the literature and their own research on the role of these proteins in the mechanism of protection against infection and on their antibiotic activity in vitro and in vivo. Results of studies on the tolerance of animals for the basic proteins following a single or prolonged parenteral administration of various histone fractions are summarized. The use of histones combined with antibacterial and antiviral agents with limited ability to penetrate certain cellular and tissue memoranes is regarded as a promising clinical approach. Positive results have been obtained in treating taberculosis in guinea pigs and mice with isoniazid and histones. The effective doses of isoniazid could be reduced five-fold when combined with certain histone fractions. Histone fractions were also efficacious in the treatment of herpetic keratitis.

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TITLE--RECONSTRUCTION OF THREE DIMENSIONAL IMAGES USING CQHERENT LIGHT -UTITLE--RECONSTRUCTION OF THREE DIMENSIONAL IMAGES USING CQHERENT LIGHT -UAUTHOR-(05)-SHMAKOV, P.V., ZHEBEL, B.G., KOPYLOV, P.M., MEDVEDEV, E.V.,
TACHKOV, A.N.
COUNTRY OF INFO--USSR

SOURCE--ELEKTROSVIAZ⁴, VOL. 24, FEB. 1970, P. 5-10

DATE PUBLISHED-----70

SUBJECT AREAS--NAVIGATION

TOPIC TAGS--HOLOGRAM, COHERENT LIGHT, TV NETWORK, BANDWIDTH COMPRESSION

CONTROL MARKING--NO RESTRICTIONS

BOCUMENT CLASS--UNCLASSIFIED
PROXY REEL/FRAME--1996/1804

STEP NO--UR/0106/T0/024/000/0005/0010

CIRC ACCESSION NO--AP0118771
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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

2/2 040 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--APO118771 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. INVESTIGATION OF DIFFERENT METHODS FOR REDUCING THE VOLUME OF HOLOGRAPHIC INFORMATION TO FACILITATE TRANSMISSION OVER STANDARD TELEVISION CHANNELS. FOR AN IDENTICAL RATE DESTRANSMISSION OF A SINGLE FRAME, THE BANDWIDTH OF THE HOLOGRAPHIC SYSTEM SHOULD BE FOUR TO SEVEN TIMES WIDER THAN A STANDARD TELEVISION CHANNEL. IT IS POSSIBLE TO REDUCE THE VOLUME OF HOLOGRAPHIC INFORMATION BY (1) RECORDING HOLOGRAMS WITH LOW SPATIAL FREQUENCIES, (2) REDUCING THE BANDWIDTH OF THE SPATIAL FREQUENCIES WITH THE AID OF A SCATTERING MEDIUM PLACED IN THE SYSTEM, AND (3) LIMITING THE DIMENSIONS OF THE ANALYZED HOLOGRAPHIC SEGMENT. IT IS SHOWN THAT THE BEST WAY OF REDUCINT THE INFORMATION IS BY REMOVING VERTICAL PARALLAX AND BY CONSERVING A LIMITED NUMBER OF ASPECTS IN THE HORIZONTAL DIRECTION. A METHOD IS DESCRIBED FOR TRANSMITTING A SEQUENCE OF IMAGES FOCUSED IN ORDINARY LIGHT, WITH SUBSEQUENT FORMATION OF A HOLOGRAM AT THE RECEIVING END. UNCLASSIFIED

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UDC 612.744.015.1.014.45

USSR

LEBEDEVA, A. F. and ZHEBROVSKAYA, H. YE., Institute of Physical Culture. Sanitary Hygiene Medical Institute, Leningrad

"The Effect of Rest on Changes in the Localization of Cholinesterase in the Neuromuscular Synapses of Animals After Exposure to Vibration (Experimental Data)"

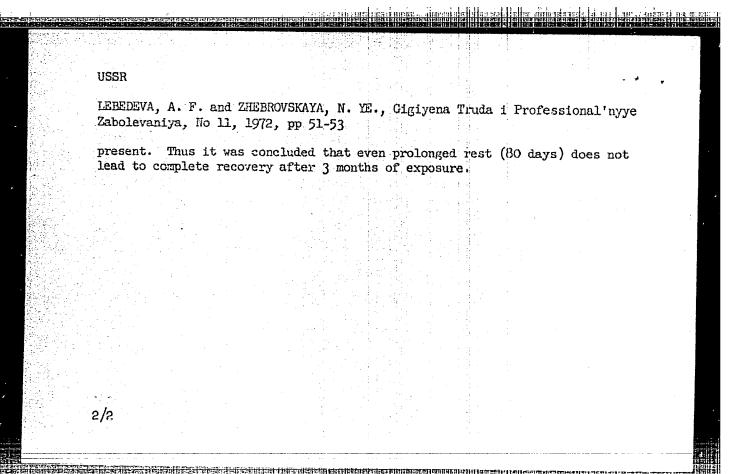
Moscow, Gigiyena Truda i Professional'nyye Zabolevaniya, No 11, 1972, pp 51-53

Abstract: The effect of the duration of rest on repair after injury due to prolonged vibration was studied by subjecting three groups of male white rats to 5 hours of vibration (at 50 Herz with 0.8 mm amplitude) each day, Sundays to 5 hours of vibration (at 50 Herz with 0.8 mm amplitude) each day, Sundays and holidays excepted, for 3 months, and then sacrificing the groups at 10, and 80 days after the end of the insult. Sixteen rats were used as controls. Cholinesterase activity in striated spinal and distal extremity muscles were studied by histochemical methods. The changes noted were more marked in the distal muscles. The group given 10 days of rest showed little recovery as compared with previous results. After 30 days of rest the pathological changes were less marked, with some motor end plates appearing normal. Much better recovery was noted after 80 days, but some abnormal end plates were still

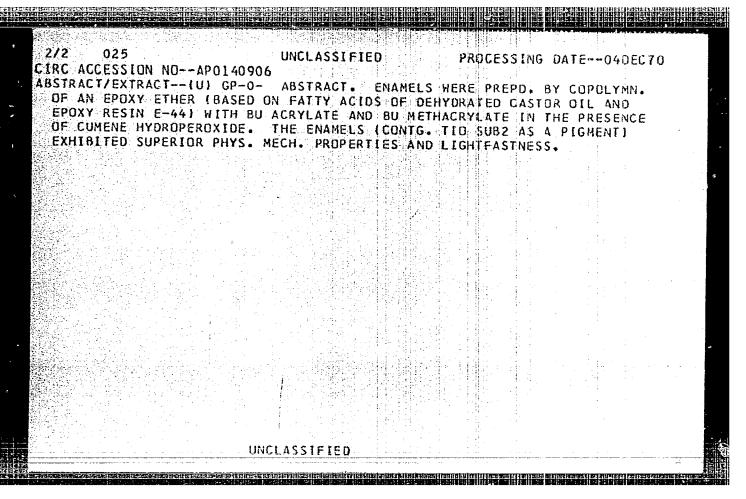
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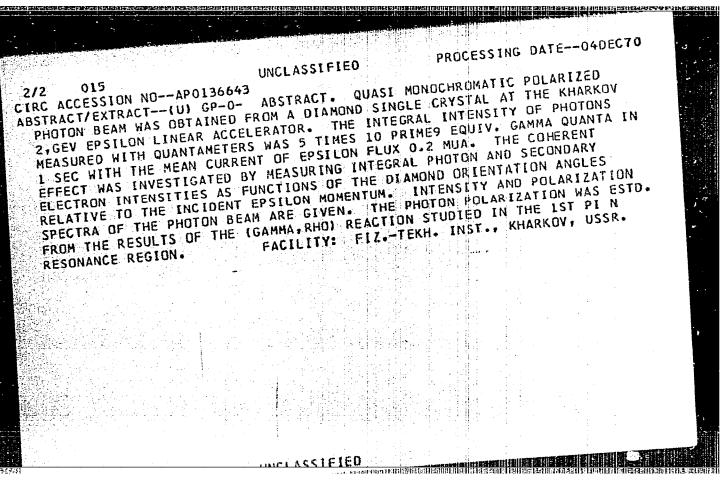
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PROCESSING DATE--04DEC70 UNCLASSIFIED TITLE--COHERENT BREMSSTRAHLUNG IN A DIAMOND SINGLE CRYSTAL -U-AUTHOR-(051-GORBENKO, V.G., ZHEBROVSKIY, YU.V., KOLESNIKOV, L.YA., MIROSHNICHENKO, I.I., ROMASKO, L.M. COUNTRY OF INFO--USSR SOURCE--YAD. FIZ. 1970, 11(5), 1044-8 DATE PUBLISHED----70 SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY TOPIC TAGS--DIAMOND, SINGLE CRYSTAL, PHOTON CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0367/70/011/005/1044/1048 DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3007/1232 CIRC ACCESSION NO--APO136643 UNCLASSIFIED



USSR

UDC 681.3.001:51

ZHEGALOV, V. I., ROMANOV, V. F.

"Improved Logic for Connection Between Analog and Digital Computers in an Analog-Digital Computer Complex"

Sb. nauch. tr. Vladimir. politekhn. in-t (Collected Scientific Works. Vladimir Polytechnical Institute), 1971, vyp. 13, pp 136-139 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 9, Sep 72, Abstract No 9B446)

Translation: The authors consider an improved logic for connection between computers in an analog-digital complex with provision for the computing time in the digital unit to exceed the quantization step while simultaneously simplifying control of the complex and improving its efficiency. One illustration. V. Kh.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203810006-9"

USSR

UDC: 5397.4

GORDEYEVA, T. A. ZHEGINA, I. P., VOLODINA, T. A., MOSCOW

"Application of Fractography to Study the Rupture Kinetics of Light Alloys"

Kiev, Problemy Prochnosti, No 3, March 1971, pp 25-29

Abstract: In this paper the fractographic method was used to study retarded rupture of alloys based on Ti and Al and to establish the relation of the structure of these alloys to the rupture kinetics in the case of single and repeated loading. The results indicate the complex, as a rule, nonmontonic variation of the rupture rate and nature in the process of crack development even when the nature of the external load is kept practically constant. It is demonstrated that in the fatigue fracture zone corresponding to transition from the stage of slow crack development to sharply accelerated crack development, along with the relief characteristic of rupture from the effect of repeated loads, microsections appear regularly for which the mechanism of single rupture is characteristic.

The role of individual structural components in the various stages of rupture turns out to be quite different. For example, in aluminum alloys the primary phase particles essentially have no effect on the rupture process 1/2

USSR

GORDEYEVA, T. A., et al., Problemy Prochnosti, No 3, March 1971, pp 25-29.

during the period of slow development of fatigue cracks.

during the period of slow development of fatigue cracks.

during the period of slow development of fatigue cracks.

The widths of the microfatigue strips are studded and compared for VAD-23 and A&A-1 alloys. This microfatigue strips are studded and electron photography to study the behavior index is taken as the characteristic of the microfathy to study the behavior. The expediency of using optical and electron photography to study the behavior of materials during crack development and the relation of rupture characteristics to load conditions is demonstrated.

The development and the relation of rupture characteristics to load conditions is demonstrated.

Immunology

UDC 616.932+616.932-008.97]-078:616.15-097.5

STOGOVA, A. G., SEMIOTROCHEV, V. L., and ZHEGLOVA, D. V., Central Asian USSR Scientific Research Antiplague Institute, Alma-Ata

"Detection of Agglutinins and Bacteriolysins in the Blood Serum of El Tor Cholera Patients and Virbio Carriers"

Moscow, Laboratornoye Delo, No 10, 1970, pp 594-595

Abstract: The agglutination and bacteriolysis tests as modified by Sack and coworkers were used to investigate the sera of two El Tor cholera patients, four vibrio carriers, 62 persons in contact with them, and 40 persons who lived in a cholera-free area. Agglutinins were present in titers ranging from 1:20 to 1:160 in the sera of patients and carriers 3 to 5 days after bacteriological confirmation of the disease. A second examination of their sera 10 days later revealed an increased agglutinin titer in those who had reacted positively before, as well as the appearance of agglutinins after reacted positively belove, as well as the appearance of a titer of the first negative result. Detection of bacteriolysins in a titer of 1:10,000 during the initial examination in all of the persons from whom the agent was isolated, together with the complete correspondence and increase in titers during the second examination of sera, indicates that 1/2

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